

**RESULTS OF RADON MONITORING FOR BASELINE SAMPLING PERIOD
WEST LAKE LANDFILL, BRIDGETON, MISSOURI
DRAFT TABLE PREPARED OCTOBER 21, 2014**

7-Day Monitoring Period Ending	Average 7-Day Radon Concentration				
	Station 1 Robertson St. 2	Station 2 Pattonville Adm.	Station 3 Pattonville St. 2	Station 4 Spanish Village	Station 5 St. Charles St. 2
05/02/14	0.26	0.75	0.37 OH	0.83	0.72
05/09/14	0.27	0.34 G1	0.20	0.16 G1 OH	0.17
05/16/14	0.25 OH	0.27 G1 OH	0.27	0.13	0.13 OH
05/23/14	0.87 LV	0.47 OH	0.21	0.11	0.16 OH
05/30/14	0.24	0.19 G1 LV	0.29	0.18	0.25 LV
06/06/14	0.20	0.18 G1	0.18	0.16	0.15
06/13/14	0.26	0.23 G1 OH	0.17 OH	0.17	0.31
06/20/14	0.20	0.15 G1 LV	0.19 LV	0.13 LV	0.46
06/27/14	0.57 LV	0.63 G1	0.22 OH	---- LV3	0.29 E
07/03/14	0.19	0.17 E	0.12	---- V1	0.11 OH
07/11/14	0.20	0.16	0.18	0.31 V2 OH	0.14
07/17/14	0.23	0.19	0.25	0.83	0.16
07/25/14	0.28	0.25	0.25	0.31 LV	0.24 OH
08/01/14	0.28 OH	0.28	0.21	0.20	0.22
08/08/14	0.36	0.48	0.31	0.27	0.30
08/15/14	0.29	0.29	0.37	0.26	0.26
08/22/14	0.28	0.39	0.33	0.33 OH	0.20 OH
08/29/14	0.24	0.22	0.25	0.13	0.22
09/05/14	0.21	0.21 LV	0.23	0.09	0.18
09/12/14	0.25 OH	0.24	0.62 LV	0.16	0.27 LV
09/18/14	0.21 OL	0.29 LV	0.22	0.24 OH	0.39
09/25/14	0.25	1.81 LV2	1.88 LV	0.47 LV	1.45 LV
10/02/14	0.36	1.28	0.40 OH	0.22 LV2	0.33 LV
10/10/14	0.25 LV	0.64	0.30	0.53 LV	0.28
10/17/14	0.22 OL	0.20	0.21	0.14	0.22

Notes:

All concentrations in picoCuries per liter (pCi/L)

Shading (if any) indicates a concentration exceeding 4 pCi/L.

G1	Final dose reading of pocket ion chamber exceeded the scale of 2.0 mR and a final reading of 2.0 was assumed. The reported radon result may be biased high.
OH / OL	Indicates one of the three replicate radon measurements was identified either a high (OH) or low (OL) outlier based on Dixon's procedure for outlier identification (see U.S. Nuclear Regulatory Commission NUREG 1475, Chapter 26.4) using a probability of erroneously labeling an observation as an outlier (α) of 0.05. The detected outlier is not reflected in the reported mean radon concentration.
LV	Indicates one of the three replicate measurements was not used in the calculation of the reported mean radon concentration because the measurement is associated with an electret having an ending measurement below 200 volts. Per the manufacturer, unreliable data may result when electret voltage drops below 200 volts.
LV3	Indicates no mean radon concentration was calculated because each of the three replicate measurements was associated with an electret having an ending measurement below 200 volts.
V1	No measurement was available due to equipment vandalism.
V2	Due to equipment vandalism, no gamma measurement was available, therefore, the average of gamma readings from the subsequent three weeks at the monitoring station was used.
E	One of the three measurements yielded a negative radon concentration and was apparently erroneous. The negative radon value was not included in the reported mean radon concentration.

RADON MONITORING RESULTS
Baseline Sampling Period
West Lake Landfill, Bridgeton, Missouri

